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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/553,210	10/13/2005	Herbert Wirz	2360-0429PUS1	1244
2292 7590 08/06/2010 BIRCH STEWART KOLASCH & BIRCH PO BOX 747 FALLS CHURCH, VA 22040-0747				
EXAMINER KEENAN, JAMES W				
ART UNIT 3652		PAPER NUMBER		
NOTIFICATION DATE 08/06/2010		DELIVERY MODE ELECTRONIC		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

mailroom@bskb.com

Office Action Summary

Application No.

10/553,210

Applicant(s)

WIRZ ET AL.

Examiner

James Keenan

Art Unit

3652

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 15 June 2010.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-6, 8-14, 16 and 18-23 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 13, 14 and 21 is/are allowed.
- 6) ☒ Claim(s) 1-6, 8-12, 16, 18-20, 22 and 23 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 5/17/10 has been entered.

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claims 1-6, 8-12, 16, 18-20, 22, and 23 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1, last line, the recitation of "the at least one object" lacks antecedent basis (note the previous recitation of "one object or a plurality of objects").

Claim 16, line 4, it is not clear if the phrase "using a portal robot" refers to "moving a collecting device" or the "objects to be picked up";

line 6, it is not clear whether the gripping device or the collecting device is used "for picking up ...";

and line 8, it is not clear to what the phrase "for collecting" refers.

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

5. Claims 1, 3/1-5/1, 6, 8, 10-12, 16, 19, and 22 are rejected under 35 U.S.C.

103(a) as being unpatentable over Peltomaki (EP 767,113) in view of Andrada Galan et al (US 5,211,523, hereinafter Galan), both previously of record.

Peltomaki shows a warehouse arrangement comprising a collecting device 20 movable over a storage area 3 by a robot 12, intermediate store 21 arranged on the collecting device for accommodating objects successively picked from the storage area in stacks or partial stacks in separate pick-up steps, and a gripping device 25, 26 arranged on the collecting device for lifting stacks or partial stacks, the gripping device being vertically movable and formed by "mutually opposite blades", as broadly claimed.

Peltomaki does not teach the blades of the gripping device to be vertically movable "with respect to the intermediate store". Further, the intermediate store of Peltomaki is not arranged in a fixed location above the storage area when the objects are being picked up.

Galan shows a collecting device 6 movable along rows or aisles of a warehouse for picking up objects 5 arranged in racks 4 adjacent the aisles, the device moved by an auto-guided vehicle 21 (i.e., robot), the device including an intermediate store 22 and a gripping device 23 vertically movable with respect to the intermediate store, the intermediate store arranged in a fixed location as the objects are picked up by the gripping device to fill the intermediate store as the objects are successively picked up.

It would have been obvious for one of ordinary skill in the art at the time of the invention to have modified the apparatus of Peltomaki by utilizing blades of a gripping device which move vertically relative to the intermediate store, and to have arranged the intermediate store in a fixed location as the objects were picked up, as taught by Galan, to more effectively and efficiently pick-up a plurality of articles from various locations in the warehouse.

This also applies to corresponding method claim 16.

Re claim 3, the intermediate stores of Peltomaki and Galan are formed by "mutually opposite side beams", as broadly claimed.

Re claim 4, the blades of the gripping devices of Peltomaki are mounted in the side beams of the intermediate store.

Re claim 5, the vertical planes of the blades and side beams of Peltomaki enclose a space with a rectangular cross section.

Re claims 6, 19, and 22, note in Peltomaki "holding elements" on the lower edges of the blades (fig. 3).

Re claim 8, Peltomaki as modified does not show a vertically movable element at the upper end of the intermediate store to exert a downward force on the topmost object to stabilize the stack. However, the examiner takes Official Notice that it is generally well known in the stacking art to utilize a vertically movable device to exert a force on the topmost object in a stack to stabilize the stack, and in view thereof, it would have been obvious for one of ordinary skill in the art at the time of the invention to have

modified the apparatus of Peltomaki with such a device as an obvious design expediency.

Re claim 10, note in Peltomaki "calibration parts" 23, 24, as broadly claimed.

Re claim 11, although Peltomaki's calibration parts are not C-shaped, the particular shape is considered to be a design choice well within the level of ordinary skill in the art.

Re claim 12, absent any structural limitations, nothing precludes any two or more portions of the collecting device from being considered "a plurality of intermediate stores". Further, Galan shows left and right intermediate stores.

6. Claims 2, 3/2-5/2, 9, 18, 20, and 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Peltomaki in view of Galan, as applied to claims 1 and 16 above, and further in view of Blakeley (US 2,735,713, previously cited).

Peltomaki as modified does not show the collecting device to comprise mutually opposite halves movable relative to each other.

Blakeley shows a device for collecting a plurality of stacked objects comprised of two mutually opposite halves B and C which are moved relative to each other to collect the objects therebetween.

It would have been obvious for one of ordinary skill in the art at the time of the invention to have further modified the apparatus of Peltomaki by constructing the collecting device with relatively movable, mutually opposite halves, as shown by Blakeley, as this would simply be an alternate equivalent, art recognized means of

collecting vertically stacked articles, the use of which in the apparatus of Peltomaki would require no undue experimentation and produce no unexpected results.

This also applies to corresponding method claim 20.

Re claims 9, 18, and 23, note securing/holding elements 20 of Blakeley.

7. Applicant's arguments with respect to claims 1-6, 8-12, 16, 18-20, 22, and 23 have been considered but are moot in view of the new ground(s) of rejection.

8. Claims 13, 14, and 21 are allowed.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to James Keenan whose telephone number is 571-272-6925. The examiner can normally be reached on Mon. - Thurs.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Saul Rodriguez can be reached on 571-272-7097. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/James Keenan/
Primary Examiner
Art Unit 3652

7/29/10